PRE AMPLIFER

C-B7/L

SERVICE MANUAL

KENWOOD

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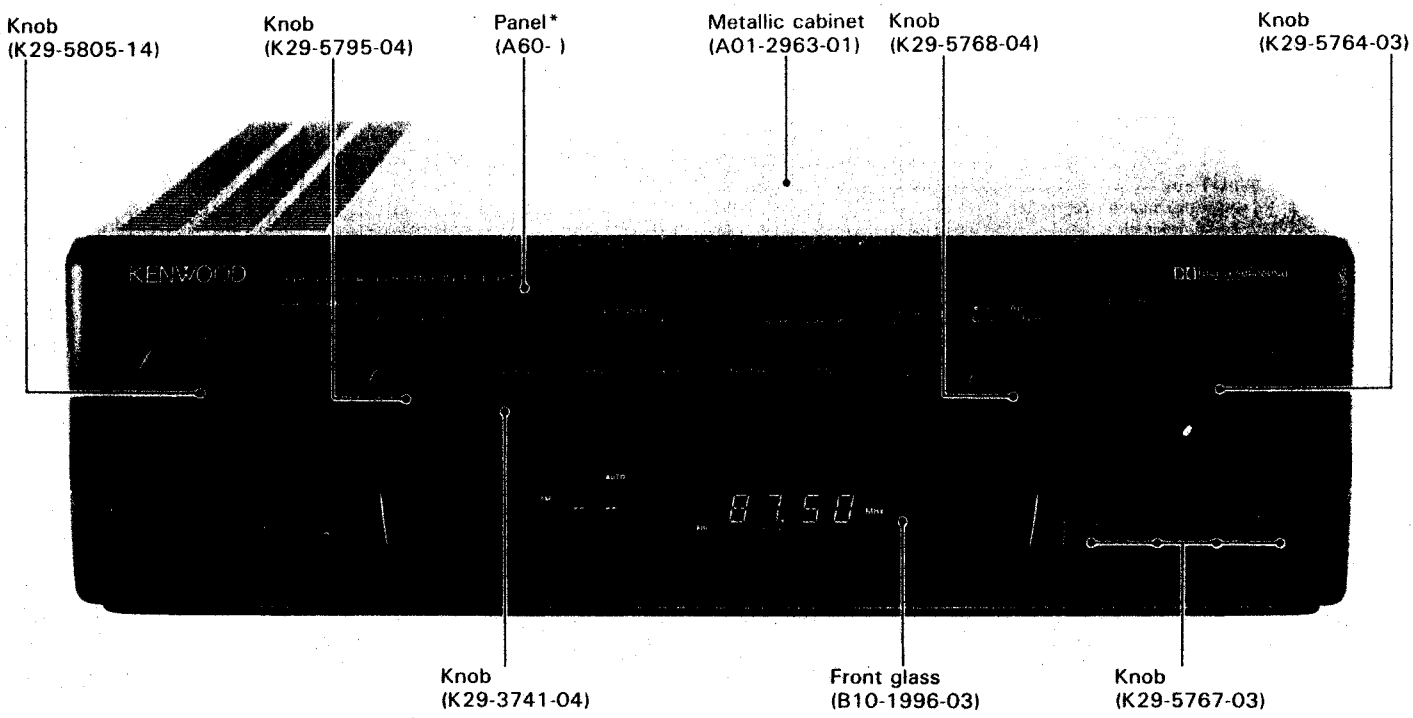
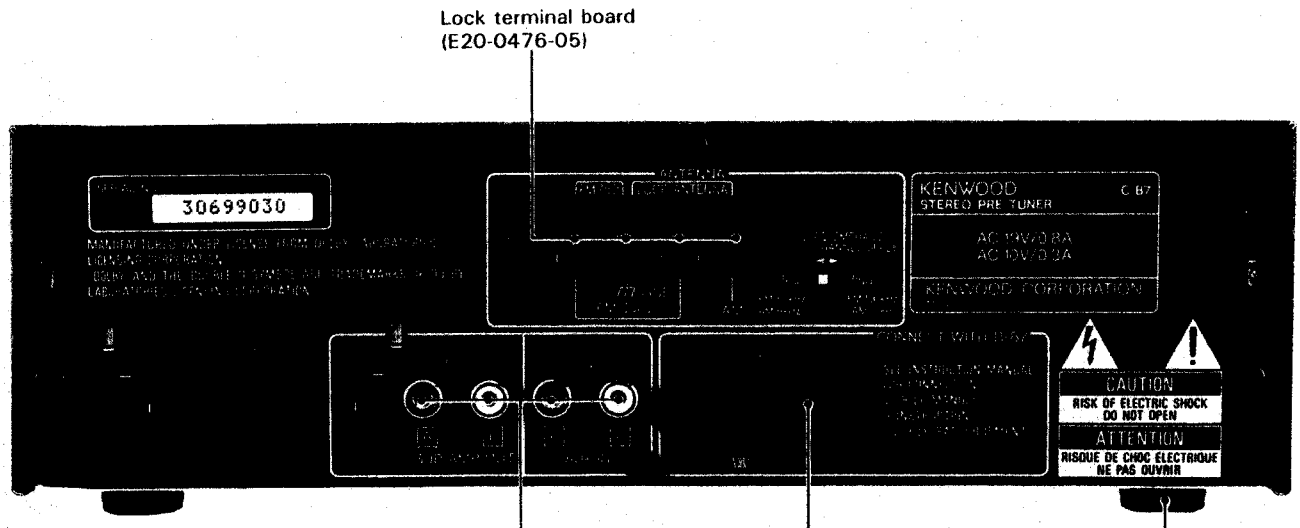
B51-4748-00(S) 4447





*Refer to parts list on page 28.

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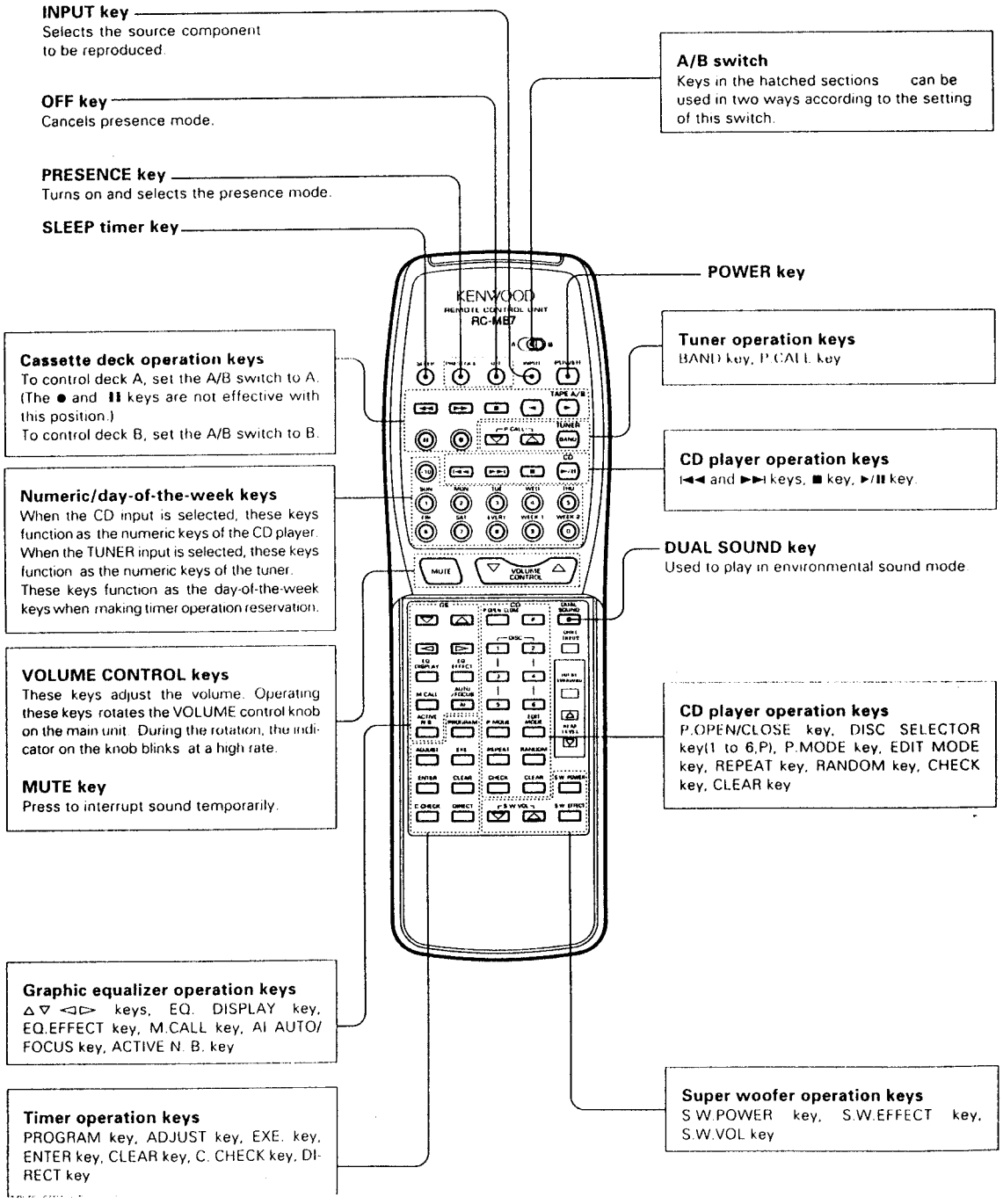
REMOTE CONTROL UNIT

REMOTE CONTROL UNIT : (X94-1050-31) BATTERY COVER : (F07-0721-23)


INPUT key
Selects the source component to be reproduced.
OFF key
Cancels presence mode.
PRESENCE key
Turns on and selects the presence mode.
SLEEP timer key
A/B switch
Keys in the hatched sections can be used in two ways according to the setting of this switch.
POWER key
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REMOTE CONTROL UNIT
RC-M87
Cassette deck operation keys
To control deck A, set the A/B switch to A. (The ● and ❚❚ keys are not effective with this position.)
To control deck B, set the A/B switch to B.
Tuner operation keys
BAND key, P.CALL key
Numeric/day-of-the-week keys
When the CD input is selected, these keys function as the numeric keys of the CD player.
When the TUNER input is selected, these keys function as the numeric keys of the tuner.
These keys function as the day-of-the-week keys when making timer operation reservation.
CD player operation keys
|◄◄ and ►►| keys, ■ key, ►/❚❚ key
DUAL SOUND key
Used to play in environmental sound mode.
VOLUME CONTROL keys
These keys adjust the volume. Operating these keys rotates the VOLUME control knob on the main unit. During the rotation, the indicator on the knob blinks at a high rate.
MUTE key
Press to interrupt sound temporarily.
CD player operation keys
P.OPEN/CLOSE key, DISC SELECTOR key(1 to 6,P), P.MODE key, EDIT MODE key, REPEAT key, RANDOM key, CHECK key, CLEAR key
Graphic equalizer operation keys
△▽ ◁▷ keys, EQ. DISPLAY key, EQ.EFFECT key, M.CALL key, AI AUTO/FOCUS key, ACTIVE N. B. key
Timer operation keys
PROGRAM key, ADJUST key, EXE. key, ENTER key, CLEAR key, C. CHECK key, DIRECT key
Super woofer operation keys
S.W.POWER key, S.W.EFFECT key, S.W.VOL key

CIRCUIT DESCRIPTION

1. TEST MODE

1.1 KEY TEST BY MEANS OF THE MAIN UNIT

(1) Measuring method

— Plug the power cord in the AC electrical outlet while pressing the CD KEY.

(2) Cancellation method

— The test mode set at the beginning is cancelled when the power cord is unplugged from the AC electrical outlet.

(3) Contents

① Automatic POWER ON

The POWER turns necessarily ON, and all functins are initialized when the power cord is plugged in the AC electrical outlet while pressing the CD KEY.

② ALL LIT mode

ALI FL and all LED light up without fail when the power cord is plugged into the AC electrical outlet while pressing the CD KEY. After that, the equipment switches to the ordinary indication mode when any key of the main unit is operated.

③ Checking the circuit by means of the main unit keys

a. Motorized volume operation

The motorized volume is tunred UP/DOWN for 16 seconds when the OTT KEY is operated.

b. PRESET CH. UP/DOWN by means of the TUNING UP/DOWN KEY

The PRESET CH. UP/DOWN operation can be caried out by operating the TUNING UP/DOWN key when the INPUT SELECTOR is the TUNER.

d. Switching the PRESENCE MODE

The PRESENCE MODE is switched according to the following cycle by pressing the AI 2 KEY.

→ARENA (SUN) → JAZZ (MON) → STADIUM (TUE) → MOVIE (WED) → GAME (THU) → HIT (FRI) → OFF (--)

e. REAR VOLUME

The REAR VOLUME is switched according to the following cycle by pressing the AI 1 KEY.

→ −30dB → 0dB → 10dB →

1.2 INITIAL SETTING

(1) Setting method

Plug the power cord in the AC electrical outlet while pressing the TUNER KEY.

(2) Contetns

The internal conditions of the equipment are set in the initial state.

1.3 Method of POWER ON

(1) Setting method

Plug the power cord to the AC outlet while pressing the TAPE key.

(2) Cancellation method

The power cord is unplugged from the AC outlet.

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CIRCUIT DESCRIPTION

1. Conditions according on the destination area and the model

LC7218 DATA TABLE

Receiving band	Destination area	Destination area SW KRET 3 2 1 0	Receiving frequency band	Channel space	Ref frequency	L. Osc frequency	PLL input terminal	PL port OUT 0 1 2 3 4 5 6
FM	J	0 * * *	76.0MHz ~ 90.0MHz	100kHz	25kHz	−10.7MHz	FMIN Internal prescaler 1/2	m i H L H H H
	E	1 1 * *	87.5MHz ~ 108.0MHz	50kHz	25kHz	+10.7MHz		
	K	1 0 * *		100kHz				
AM	J	0 * * *	531kHz ~ 1602kHz	9kHz	9kHz	+450kHz	AMIN	m i H H L H H
	E	1 1 * *						
	K1	1 0 1 *	530kHz ~ 1610kHz	10kHz	10kHz			
	K2	1 0 0 *	530kHz ~ 1700kHz					
LW	E	1 1 * 1	153kHz ~ 279kHz	9kHz	9kHz	+450kHz	AMIN	m i H H H L H

NOTE
*: Don't care

NOTE
m: MONO (L)
STEREO (H)

i: IF COUNTER START (H)
IF COUNTER STOP (L)

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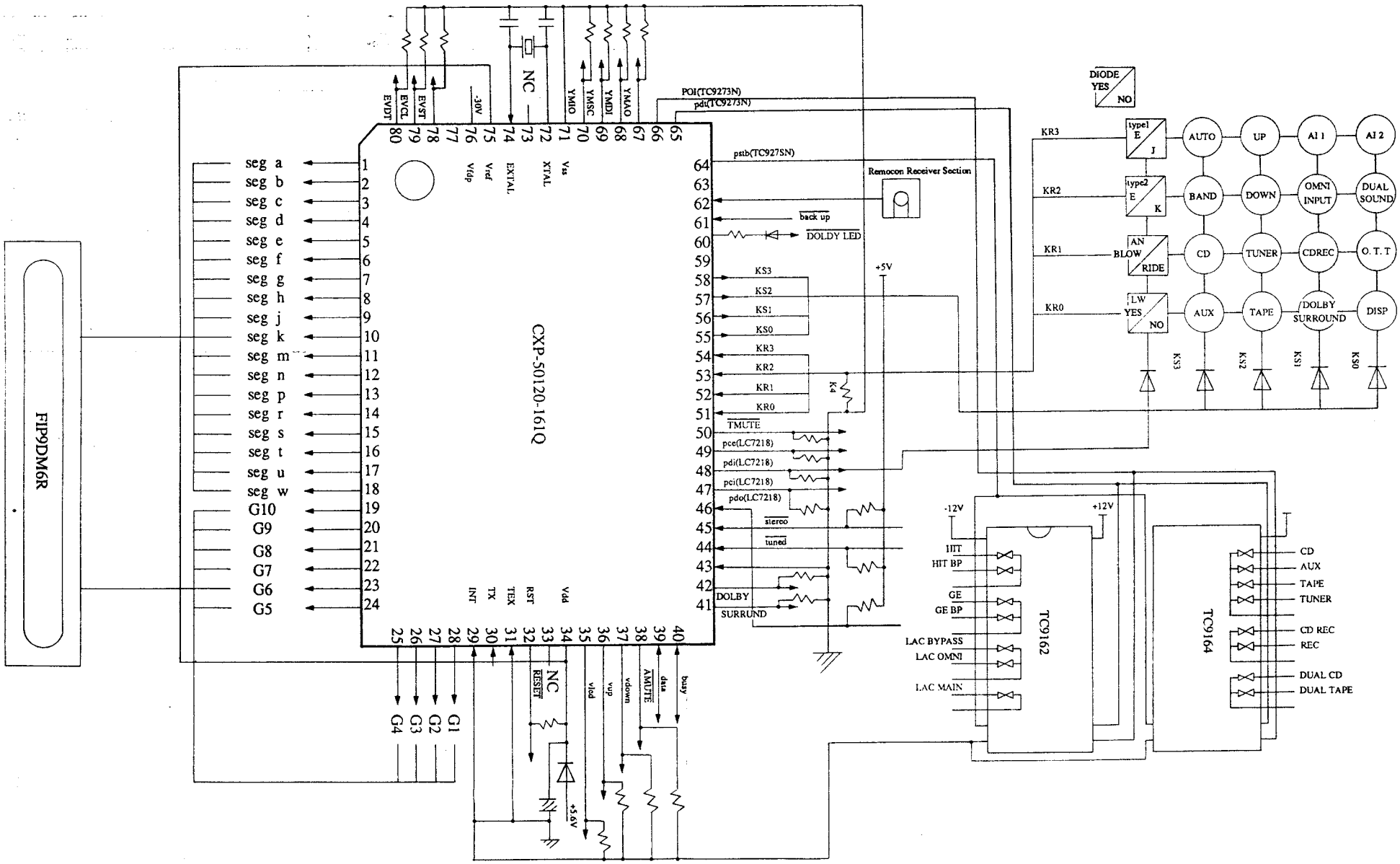
BLOCK DIAGRAM

Microprocessor(CXP-50120-161Q) : (X14- : IC19)



CIRCUIT DESCRIPTION

Pin Description

PIN	PIN NAME	I/O	NAME	DESCRIPTION
1	s4/pg0	O	segment A	Fluorescent character display tube segment
2	s5/pg1	O	segment B	
3	s6g/pg2	O	segment C	
4	s7/pg3	O	segment D	
5	s8/pk0	O	segment E	
6	s9/pk1	O	segment F	
7	s10/pk2	O	segment G	
8	s11/pk3	O	segment H	
9	s12/pj0	O	segment J	
10	s13/pj1	O	segment K	
11	s14/pj2	O	segment M	
12	s15/pj3	O	segment N	
13	s16/t15	O	segment P	
14	s17/t14	O	segment R	
15	s18/t13	O	segment S	
16	s19/t12	O	segment T	
17	s20/t11	O	segment U	
18	s21/t10	O	segment W	
19	s22/t9	O	grid 10	Fluorescent character display tube grid
20	s23/t8	O	grid 9	
21	t7	O	grid 8	
22	t6	O	grid 7	
23	t5	O	grid 6	
24	t4	O	grid 5	
25	t3	O	grid 4	
26	t2	O	grid 3	
27	t1	O	grid 2	
28	t0	O	grid 1	
29	int	I	no use	Unused Handling: Connect with Vss
30	tx	—	no use	Unused Handling: Open
31	tex	I	no use	Unused Handling: Connect with Vss
32	rst	I/O	reset	Reset terminal
33	nc	—	non conect	Unused Handling: Open
34	vdd	—	vdd	+5V application termianl
35	pi0/ad0	O	vled	Volume LED
36	pi1/ad1	O	vup	Volume UP terminal
37	pi2/ad2	O	vdown	Volume DOWN terminal
38	pi3/ad3	O	amute	Amp. mute (Active LOW)
39	pb0/ad4	I/O	data	Serial communication data terminal
40	pb1/ad5	I/O	busy	Serial communication busy terminal

CIRCUIT DESCRIPTION

Pin Description

PIN	PIN NAME	I/O	NAME	DESCRIPTION
41	pb2/ad6	O	psurr	Presence ON/OFF SW (1: Presence ON)
42	pb3/ad7	O	pblby	Dolby ON/OFF SW (1: Dolby ON)
43	ec	—	ec	Unused Handline: Connect with Vss
44	px0/sc	I	tuned	SD detector terminal (Active LOW)
45	px1/so	I	stereo	ST detector terminal (Active LOW)
46	px2/si	I	pdo	PLL LC7218 DO terminal
47	pa0	O	pcl	PLL LC7218 CL terminal
48	pa1	O	pdi	PLL LC7218 DI terminal
49	pa2	O	pce	PLL LC7218 CE terminal
50	pa3	O	tmute	Tuner mute (Active LOW)
51	pf0	I	kr0	Key return line 0
52	pf1	I	kr1	Key return line 1
53	pf2	I	kr2	Key return line 2
54	pf3	I	kr3	Key return line 3
55	pe0	O	ks0	Key scan line 0
56	pe1	O	ks1	Key scan line 1
57	pe2	O	ks2	Key scan line 2
58	pe3	O	ks3	Key scan line 3
59	py0	O	no use	Unused Handling: Open
60	py1/pwm	O	no use	Unused Handling: Open
61	py2/wp	I	ce (back up)	Backup detector terminal (Active LOW)
62	py3/rmc	I	remain	Remote control detector terminal (Active LOW)
63	pd0	O	pmicmix	Microphone mixing SW (HIGH during recording)
64	pd1	O	pstb	Selector TC9273N strobe terminal
65	pd2	O	pdt	Selector TC9273N data terminal
66	pd3	O	pclk	Selector TC9273N clock terminal
67	pc0	O	PYMAO	
68	pc1	O	PYMDI	Presence logic port
69	pc2	O	PYMSC	
70	pc3	O	PYMIC	
71	vss	—	vss	GND terminal
72	xtal	—	xtal	Crystal oscillator 4.19MHz
73	nc	—	non conect	Unused Handling: Open
74	extal	—	extal	Crystal oscillator 4.19MHz
75	vref	—	vref	Connected the with power supply voltage detector reset reference voltage application termianl Vdd
76	vfdp	—	vfdp	Fluorescent character displauy crasing voltage application terminal (−30V)
77	so/ph0	O	no use	Unused Handling: Open
78	s1/ph1	O	pevdt	Electrical volume TC9213P data terminal
79	s2/ph2	O	pevcl	Electrical volume TC9213P clock terminal
80	s3/ph3	O	pevst	Electrical TC9213P strobe terminal

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION BAND : FM							
1	DISCRIMINATOR	(A) 98.0 MHz 1 kHz,±75kHz dev 60 dB μ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0 MHz	L3 (X05-)	0V	
					L4 (X05-)	Minimum distortion.	
2	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz,±68.25 kHz dev Pilot:±7.5kHz dev 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	IFT (W02-)	Minimum distortion.	
3	SEPARATION	(C) 98.0 MHz 1 kHz,±40 kHz dev Pilot:±6kHz dev Selector: L or R 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Minimum distortion.	
4	TUNING LEVEL	(A) 98.0 MHz 1 kHz,±75 kHz dev 14 dB μ (ANT input) 75 Ω 60 dB μ (ANT input)300 Ω	(B)	AUTO or MONO 98.0 MHz	VR1 (X05-)	Adjust VR1 and stop at the point-where FL201(TUNED) goes ON.	
AM (MW) SELECTION BAND: AM(MW)							
(1)	TUNING LEVEL	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (ANTinput)	(B)	1008 kHz	VR2 (X05-)	Adjust VR3 and stop at the point-where FL201(TUNED) goes ON.	

When the tuner PCB (x05-) is removed from the main unit, please be sure to connect the PCB's GND (ANT shield is not necessary) to the main unit chassis (an alligator clip is usefuil for this) and check the conductivity.

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REGLAGE

N°	ITEM	REGLAGEE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF		BAND : FM					
1	DISCRIMI-NATEUR	(A) 98.0 MHz 1 kHz,±75kHz dév 60 dB μ (Entée ANT)	Relier un voltmètre CC entre les TP3 et TP4. (X05-)	AUTO ou MONO 98.0 MHz	L3 (X05-)	0V	
					L4 (X05-)	Distorsion minimale.	
2	DISTORSION (STEREO)	(C) 98.0 MHz 1 kHz,±68.25 kHz dév Signal pilot:±7.5kHz dév 60 dB μ (Entrée ANT)	(B)	AUTO 98.0 MHz	IFT (W02-)	Distorsion minimale.	
3	SEPARATION	(C) 98.0 MHz 1 kHz,±40 kHz dév Signal pilote:±6kHz dév Selection: L ou R 60 dB μ (Entée ANT)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Diaphonie minimale.	
4	NIVEAU D'ACCORDER	(A) 98.0 MHz 1 kHz,±75 kHz dév 14 dB μ (Entée ANT) 75 Ω 60 dB μ (Entée ANT) 300 Ω	(B)	AUTO ou MONO 98.0 MHz	VR1 (X05-)	Aduster VR1 que FL1(TUNED) est non al lumé. Abrs. ajuster VR1 et arrêter le mouvement de VR2 au moment oú le FL1(TUNED)s' allume.	
SELECTION MA		BAND: AM(MW)					
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (Entée ANT)	(B)	1008 kHz	VR2 (X05-)	Aduster VR3 que FL1(TUNED) est non al lumé. Abrs. ajuster VR1 et arrêter le mouvement de VR3 au moment oú le FL1(TUNED)s' allume.	

Lorsque la carte PCB du tuner (X05-) est retirée de l'unité principale , n'oubliez pas de connecter la masse GND de la carte PCB (un blindage ANT n'est pas nécessaire) au châssis de l'unité principale (une agrafe crocodile est utile pour cela) et vérifiez la conductivité.

ABGLEICH

NR.	gegestand	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	abb.
UKW-EMPFANGSABTEILUNG BAND : FM							
1	DISKRIMINATOR	(A) 98.0 MHz 1 kHz,±75kHz Hub 60 dB μ(ANT-Eingang)	Einen Gleichspannungs-messer zwischen TP4 und TP3 anschlie β en. (X05-)	AUTO oder MONO 98.0 MHz	L3 (X05-)	0V	
					L4 (X05-)	Minimal klirrfactor.	
2	KLIRRFACTOR (STEREO)	(C) 98.0 MHz 1 kHz,±68.25 kHz Hub Pilotten:±7.5kHz Hub 60 dB μ(ANT-Eingamg)	(B)	AUTO 98.0 MHz	IFT (W02-)	Minimal klirrfactor.	
3	SEPARATION	(C) 98.0 MHz 1 kHz,±40 kHz Hub Pilotten:±6kHz Hub Wähler: L oder R 60 dB μ(ANT-Eingang)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Minimal klirrfactor.	
4	ABSTIMM PEGEL	(A) 98.0 MHz 1 kHz,±75 kHz Hub 14 dB μ(ANT-Eingang) 75Ω 60 dB μ(ANT-Eingang) 300Ω	(B)	AUTO oder MONO 98.0 MHz	VR1 (X05-)	Den pegel widerstand VR1 so einstellen. de β der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR2 Halt gebenwobei den FL1(TUNED) anzeiger leuchtet wird.	
SELECTION MA BAND: AM(MW)							
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ(Entée ANT)	(B)	1008 kHz	VR2 (X05-)	Den pegel widerstand VR1 so einstellen. de β der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR3 Halt gebenwobei den FL1(TUNED) anzeiger leuchtet wird.	

Wenn die Tuner-Platie (X05-) vom Hauptgerät entfernt wird, ist darauf zu achten, daß der Masseanschluß (GND) der Platine (ANT-Abschirmung ist nicht erforderlich) an das Gehäuse des Hauptderäts angeschlossen (z.B.über Krokodilklemme) und die Konduktivität überprüft wird.

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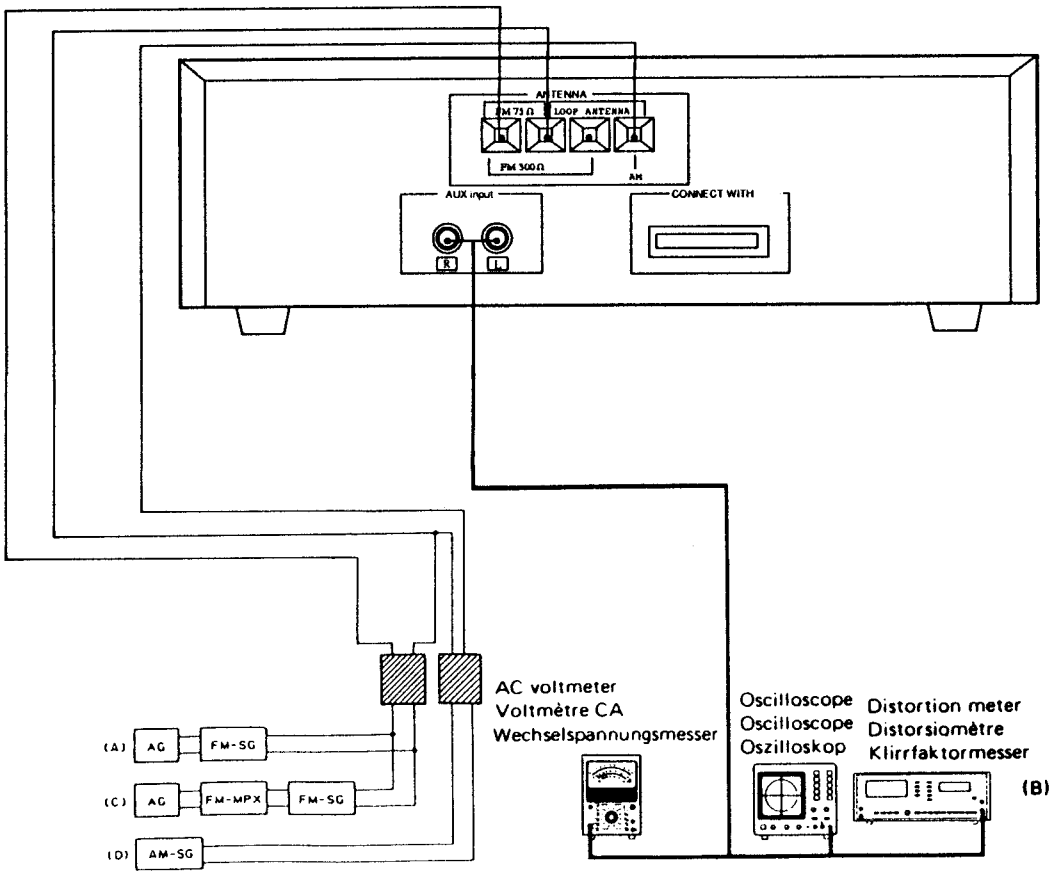
ADJUSTMENT/REGLAGE/ABGLEICH



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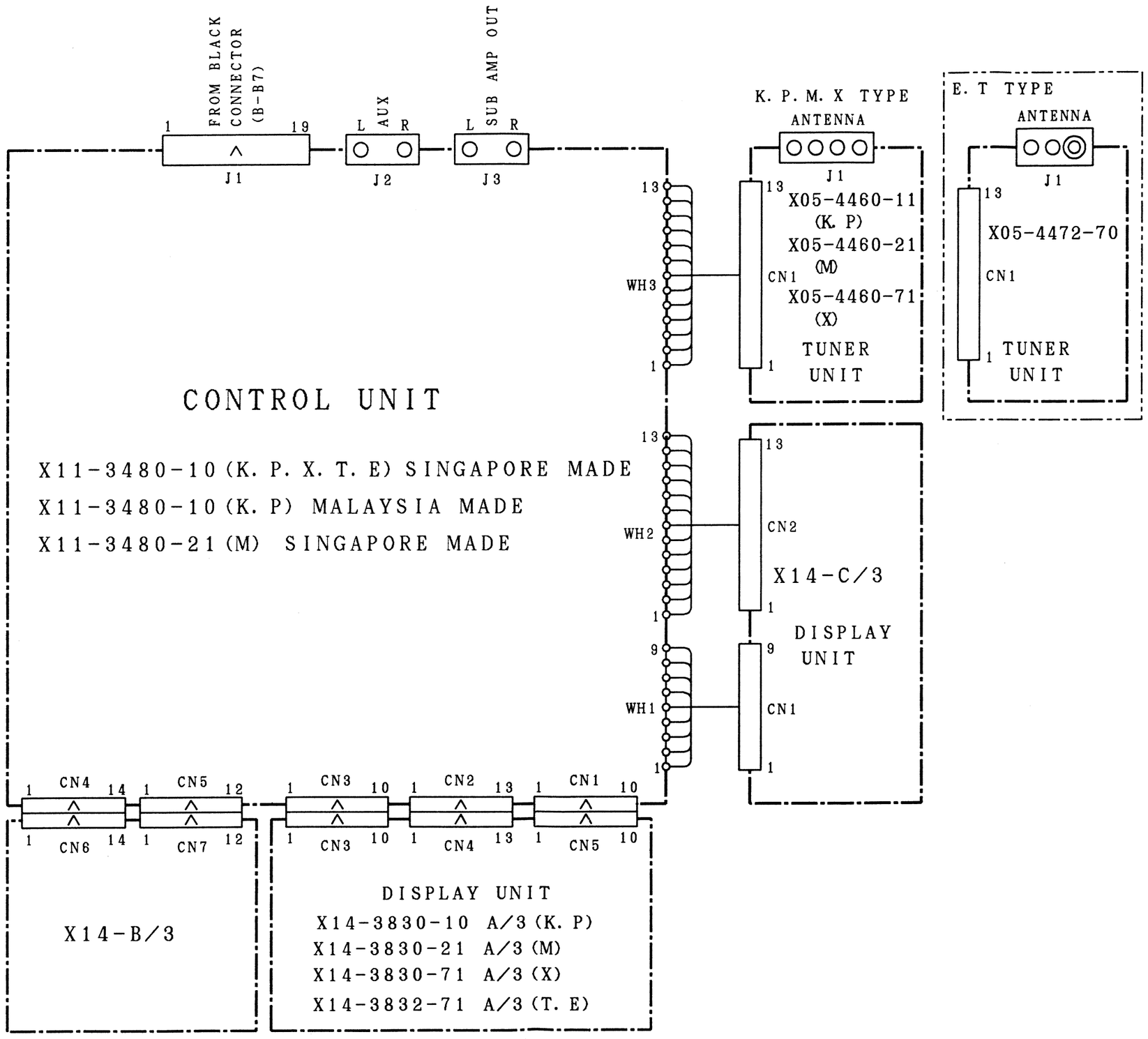
WIRING DIAGRAM



PC BOARD (Component side view)

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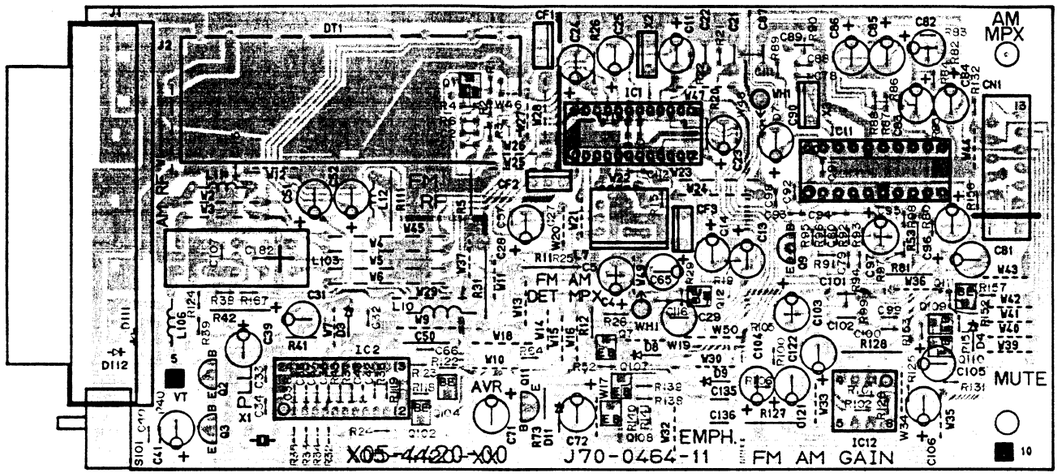
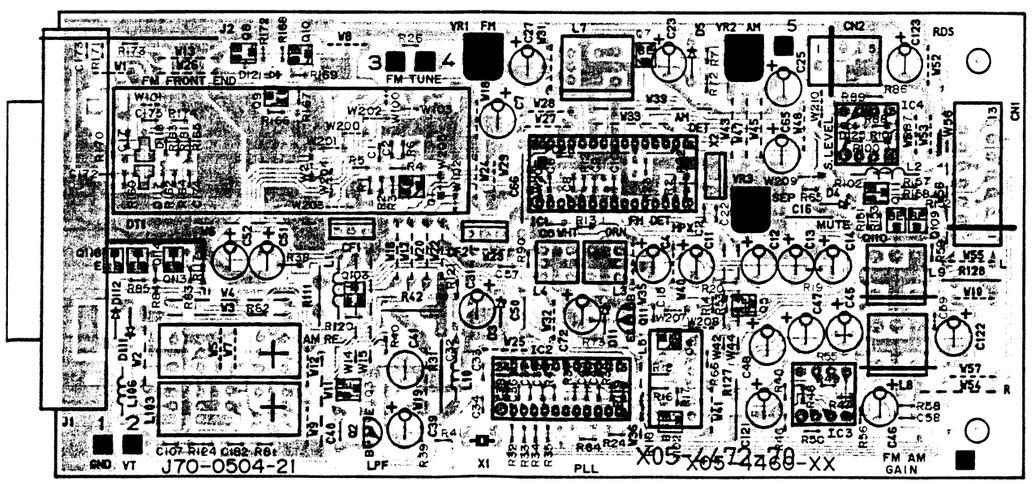
TUNER UNIT(X05-446X-XX)

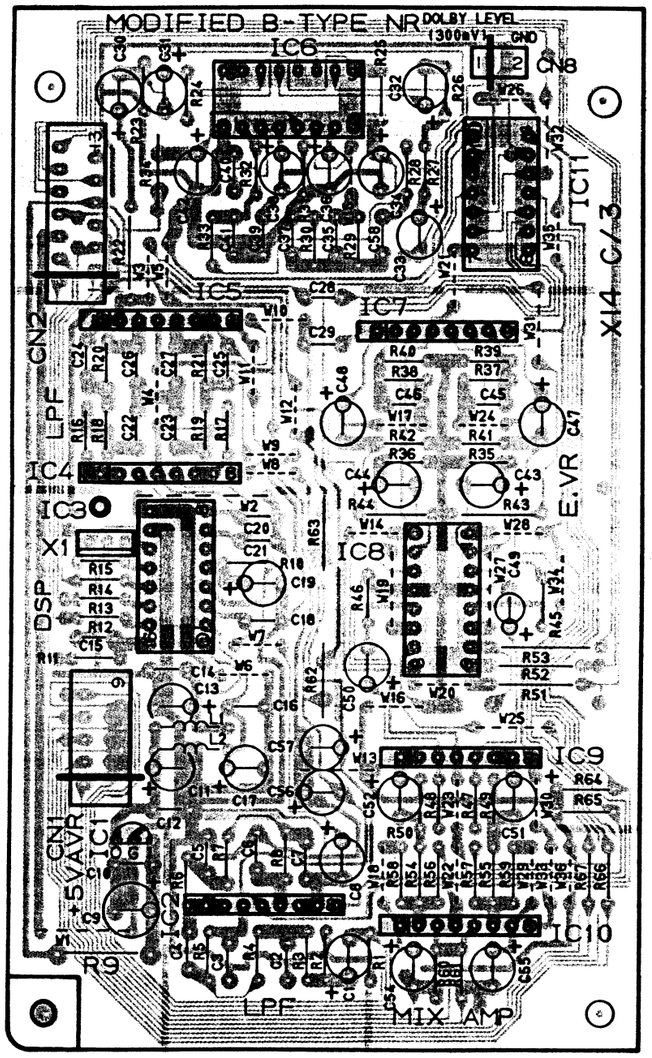


FRONT

TUNER UNIT(X05-447X-XX)



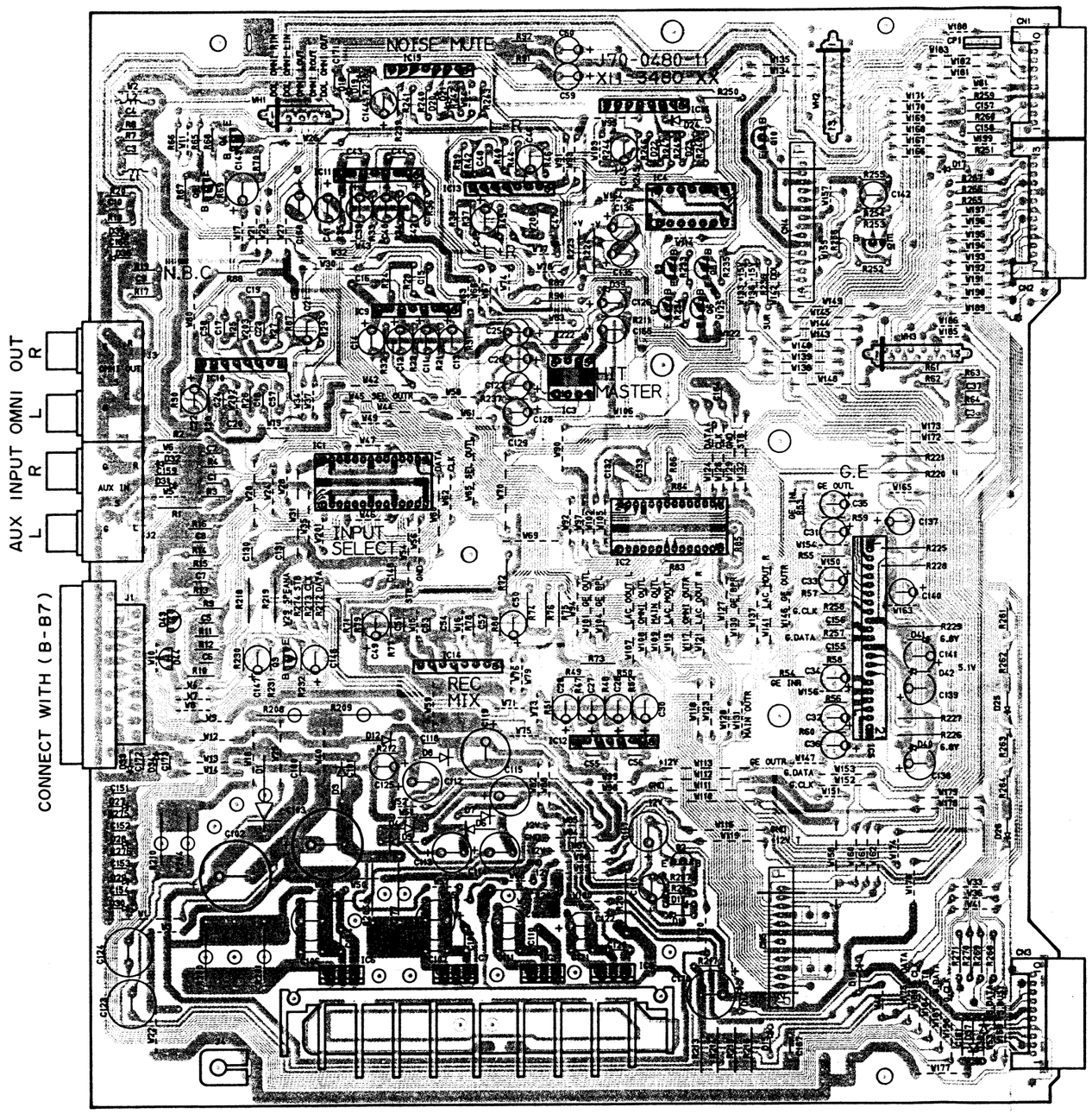
DISPLAY UNIT(X14-383X-XX)

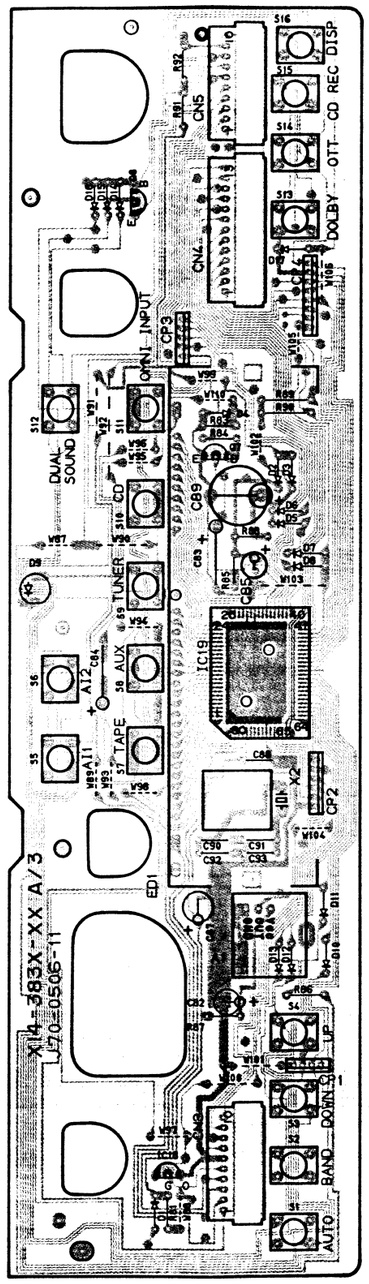


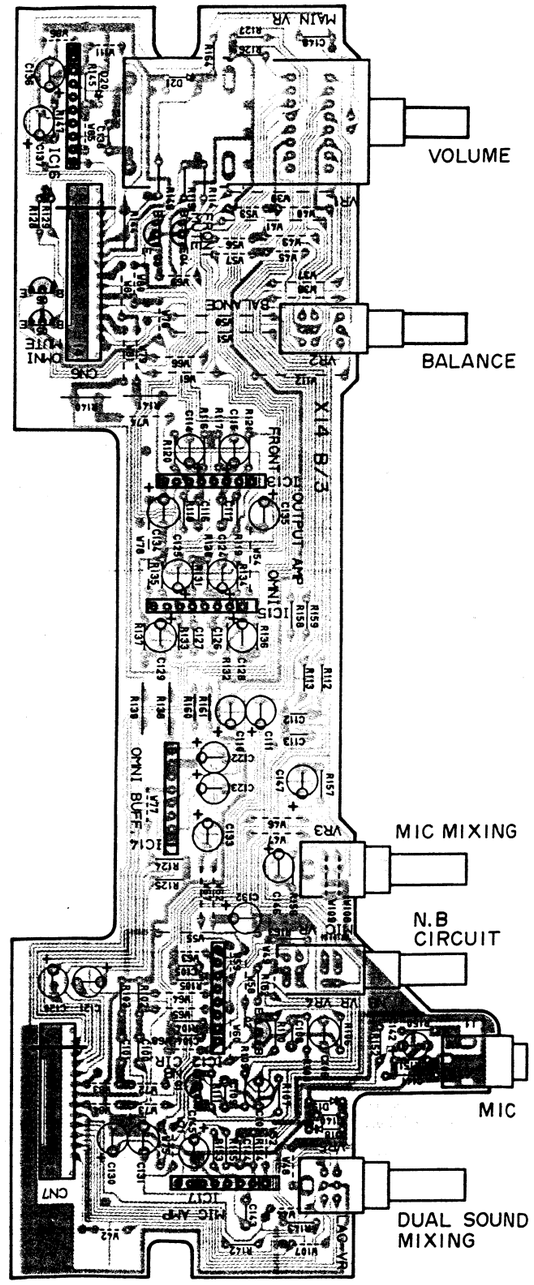
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

CONTROL UNIT(X11-348X-XX)







Refer to the schematic diagram for the values of resistors and capacitors.

X05-4460-XX (SINGAPORE MADE)(K, P, M, X TYPE)　　X05-4460-11 (MALAYSIA MADE) (K, P TYPE)

X05-447

FM FRONT END
DT1 (W02-1167-05)

UNIT	ABB	REF. NO / DISTINATION	Q107 Q108	C21 C22	C135 C136	R138 ~141	S101
0-11	K, P	USA, CANADA	NO	0.024	NO	NO	NO
0-21	M	PX, OTHER AREAS	YES	0.016	YES	YES	YES
0-71	X	AUSTRALIA	NO	0.016	NO	NO	NO

X05-4472-70 (E, T TYPE)

FM FRONT END DT1 (W02-1166-05)

2SA1534A
2SC1845
2SC2878
2SD863

2SA1175
2SC2785

DTA124ES
DTC124ES
UN4112
2SA933S
2SC1740S

2SA1037K
2SC2412K
2SC2714

UN4212

NJM4565D

LA2730

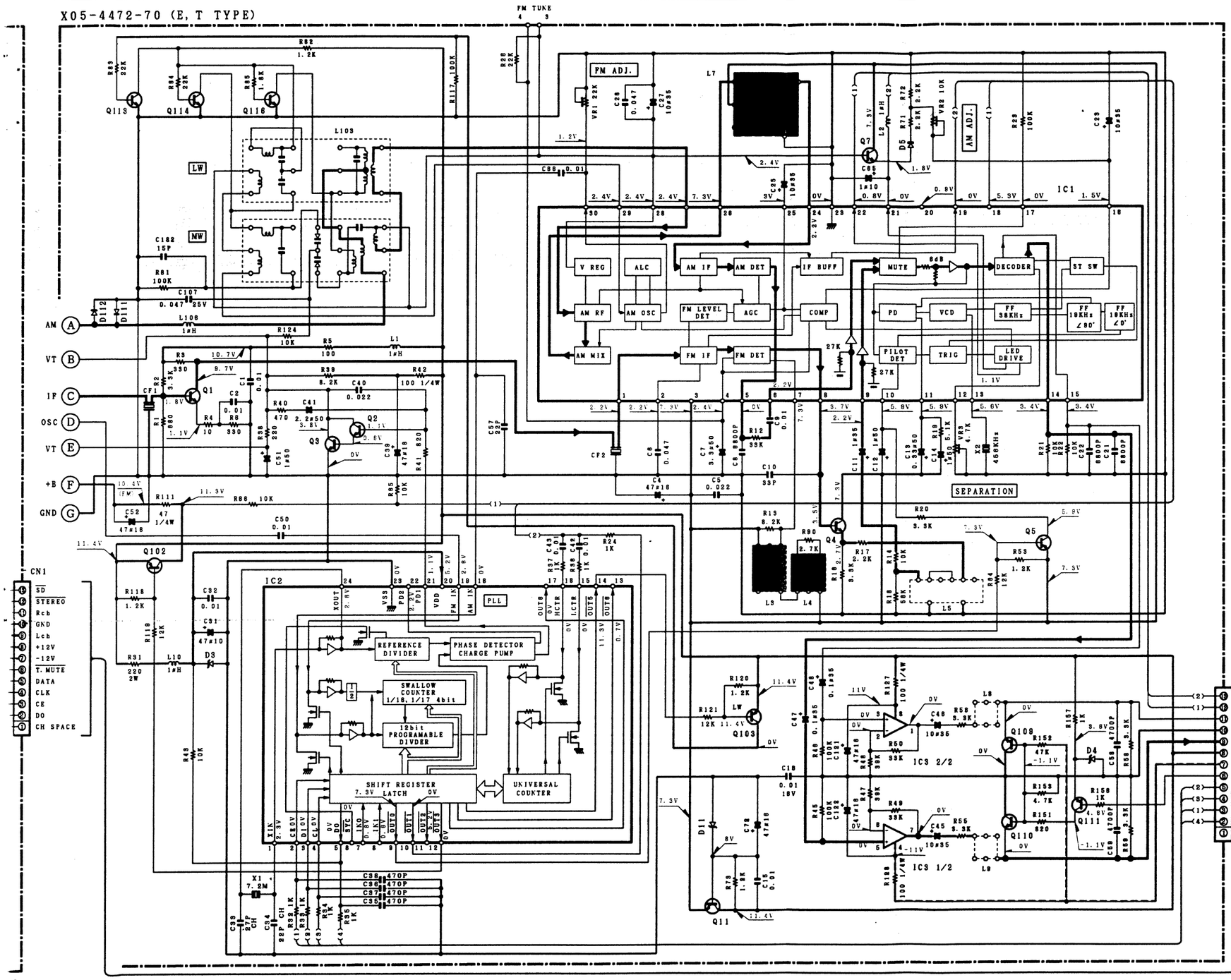
TC9213P

TA8409S

YM7128B

C(A)1642P

X05-4472-70 (E, T TYPE)

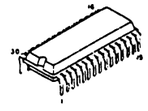


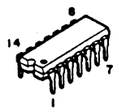
X05-446X-xx

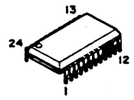
IC1	:LA1831
IC2	:LC7218
IC12	:NJM45650
Q1	:2SC2714 (R, O)
Q2	:2SC1845 (F, E)
Q3	:2SC2458 (Y, GR) or 2SC3911A (Q, R) 2SC1740S (Q, R) or 2SC2785 (F, E)
Q7, 107~110	:2SC2412K
Q11	:2SD863 (E, F)
Q102, 104, 111	:2SA1037K
D3	:HZS5. 1N (B2) or RD5. 1ES (B2)
D4	:HZS3. 9N (B2) or RD3. 9ES (B2)
D7, 111, 112	:MA110
D8, 9	:HSS104 or 1SS133
D11	:HZS8. 2N (B2) or RD8. 2ES (B2)

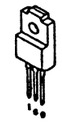
X05-4472-70

IC1	:LA1851N
IC2	:LC7218
IC3	:NJM4565D
Q1	:2SC2714 (R, O)
Q2	:2SC1845 (F, E)
Q3, 4, 7, 109 110, 113, 114, 116	:2SC2412K
Q5, 102, 103, 111	:2SA1037K
Q11	:2SD863 (E, F)
D3	:HZS5. 1N (B2) or RD5. 1ES (B2)
D4	:HZS3. 3N (B2) or RD3. 3ES (B2)
D5, 111, 112	:HSS104 or 1SS133
D11	:HZS8. 2N (B2) or RD8. 2ES (B2)

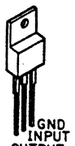

LA1851N


LC4966

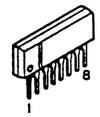

LA1831

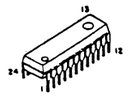

AN780575F
TA7812S

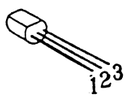
UPC7912HF



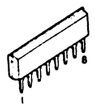
TA79012S

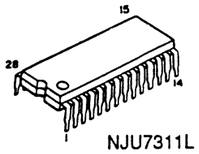

NJM4565L-D

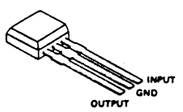

LC7218


S-80740AL

CXA1642P


M5238AL


NJU7311L
NJU7313L



UPC78L05J

UPC7812AHF

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

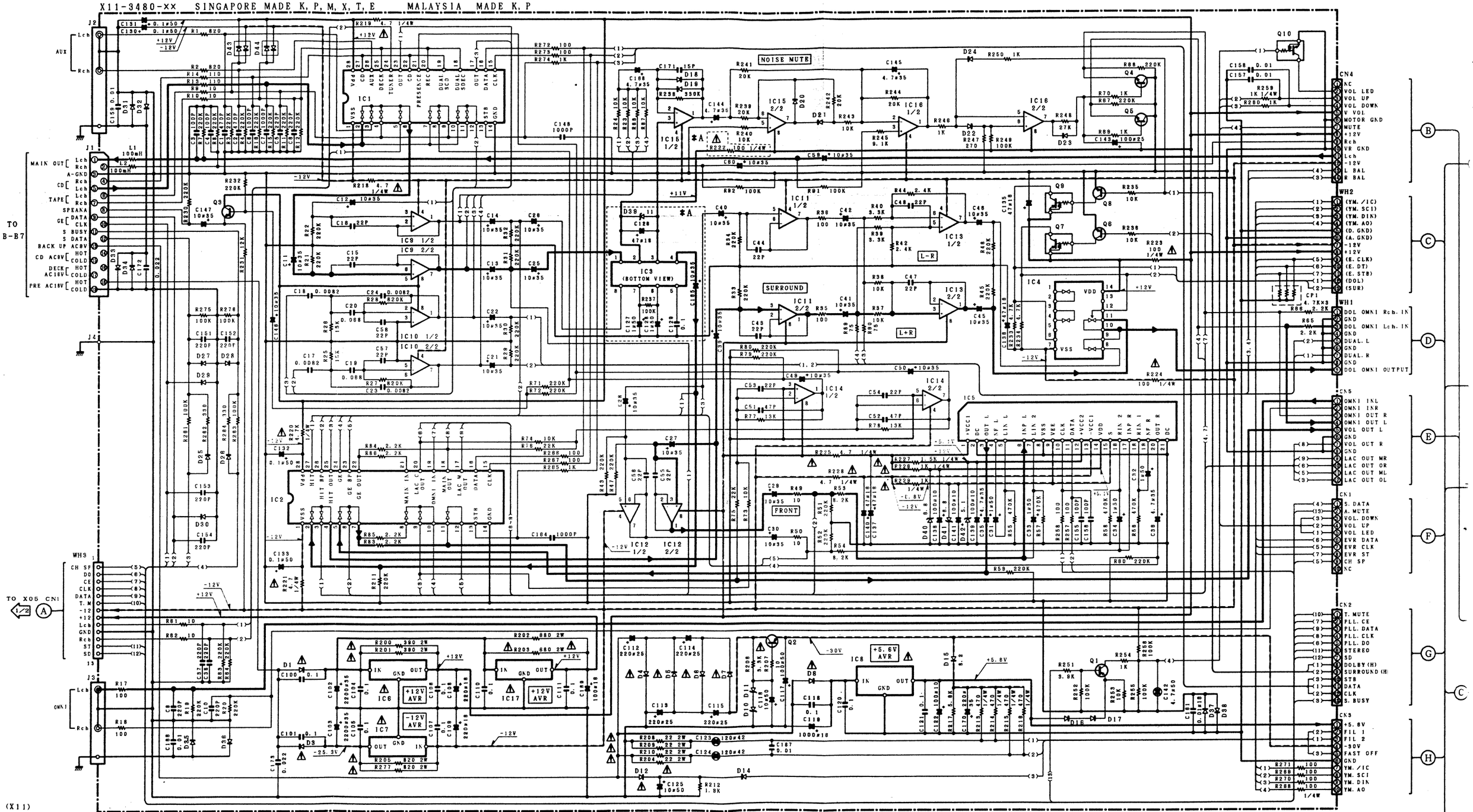
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-2820-10

C-B7/L

KENWOOD

X11-3480-xx SINGAPORE MADE K, P, M, X, T, E MALAYSIA MADE K, P



(X11)

IC1	:NJU7313LorTC9164N	IC8	:AN780575F	Q4, 5	:2SC2878(B)	D40, 41	:RD6.8ES(B2)orHZS6.8N(B2)
IC2	:NJU7311LorTC9162N	IC9~16	:NJM4565L-D	Q7, 8	:DTA124ESorUN4112	D15	:RD8.2ES(B2)orHZS6.2N(B2)
IC3	:CXA1642P			Q10	:DTC124ESorUN4212	D39	:RD11ES(B2)orHZS11N(B2)
IC4	:LC4966	Q1	:2SA933S(Q, R)			D10	:RD13ES(B2)orHZS13N(B2)
IC5	:STK301-220		or2SA1175(F, E)	D1	:DSA3A2	D11	:RD15ES(B)orHZS15N(B)
IC6, 17	:μPC7812AHForTA7812F	Q2	:2SA1534A(R, S)	D3~8, 12	:1SR139-1000orS5688B	D43, 44	:MA177
IC7	:μPC7912HForTA78012S	Q3, 6, 8	:2SC1740S(Q, R)	D14, 16~38	:HSS104orISS133		
			or2SC2785(F, E)	D42	:RD5.1ES(B2)orHZS5.1N(B2)		

X11

REF. NO. / DESTINATION	A
0-10 K. P. T. E	NO
0-21 M. X	YES

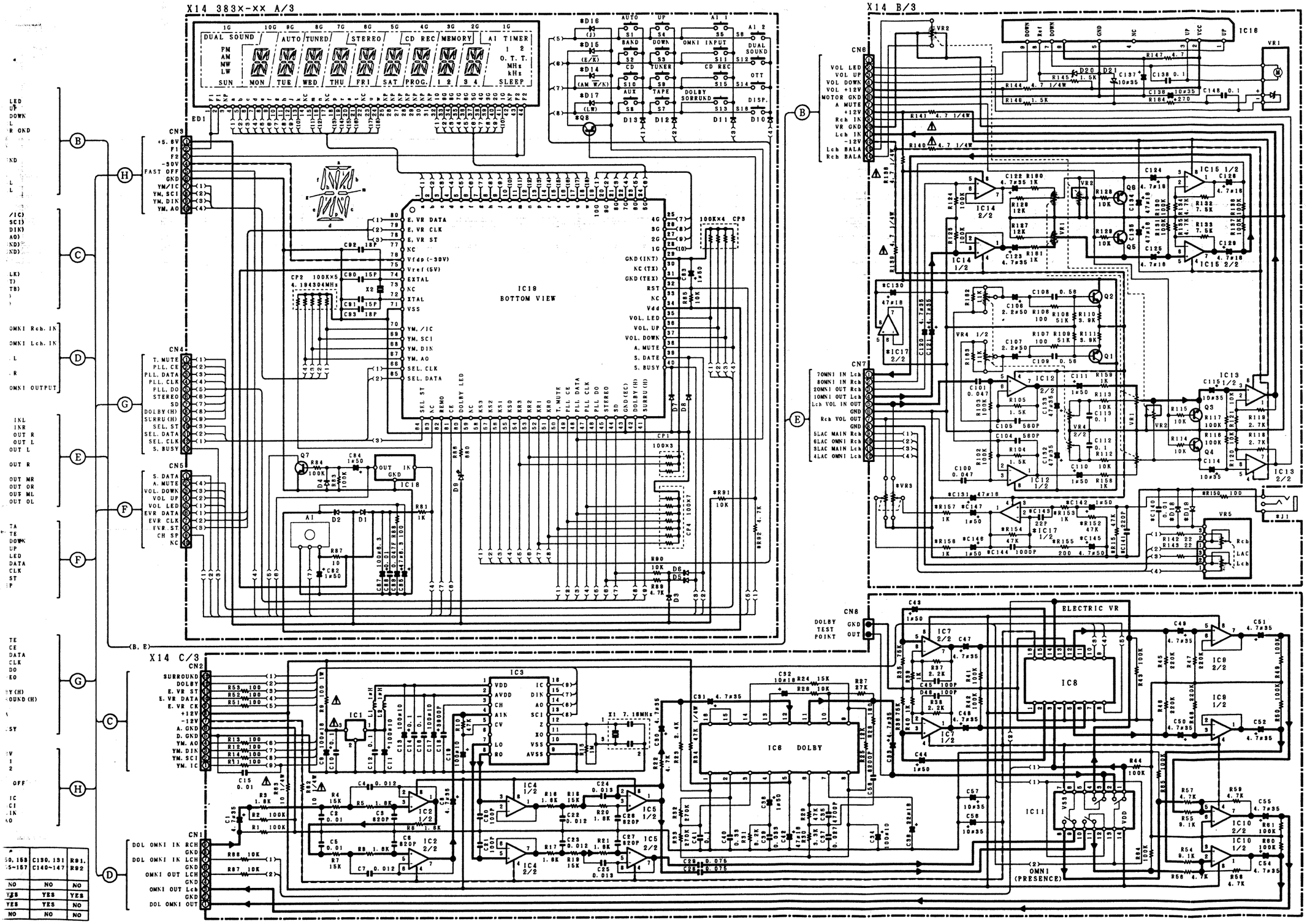
(X14)

IC1	:μPC78L05J	IC13	:NJM4558L-D	D21	:RD3.3ES(B2)
IC2	:M5238AL	IC16	:TA8409S		or HZS3.3N(B2)
IC3	:YM7128B	IC18	:MN11381-R(TA)orS-80740AL	Q1, 2	:2SC1845(F, E)
IC4, 5, 7, 9, 10, 12, 14, 15	:NJM4565L-D	IC19 D1~8, 10~18	:CXP50120-161Q :HSS104orISS133	Q3~6	:2SC2878(B)
IC6	:LA2730			Q7	:2SC4038(Q, R)
IC8	:TC9213P	D9	:B30-1291-05(9)	Q8	:2SA933(Q, R)or 2SA1175(F, E)
IC11	:LC4966	D20	:RD3.9ES(B2)orHZS3.9N(B2)		

X14

REF. NO. / DESTINATION	D18, 19 IC17, VR3 J1, W48, 52 W72, 73	D14 Q8	D15	D17	W108 W109	R150, 153 R155~157	R130, 131 R140~147	R91, R92
0-10 K. P	NO	NO	NO	NO	YES	NO	NO	NO
0-21 M	YES	YES	NO	NO	NO	YES	YES	YES
0-71 X	YES	NO	YES	NO	NO	YES	YES	NO
2-71 T. E	NO	NO	YES	YES	YES	NO	NO	NO

DC voltages are as measured with a high impedance volt-
ter with no signal input. Values may vary slightly due to v-
tions between individual instruments or and units.



	C130, 131	R91,
50, 158	C140~147	R92
NO	NO	NO
YES	YES	YES
YES	YES	NO
NO	NO	NO

with a high impedance voltmeter may vary slightly due to variations and/or units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

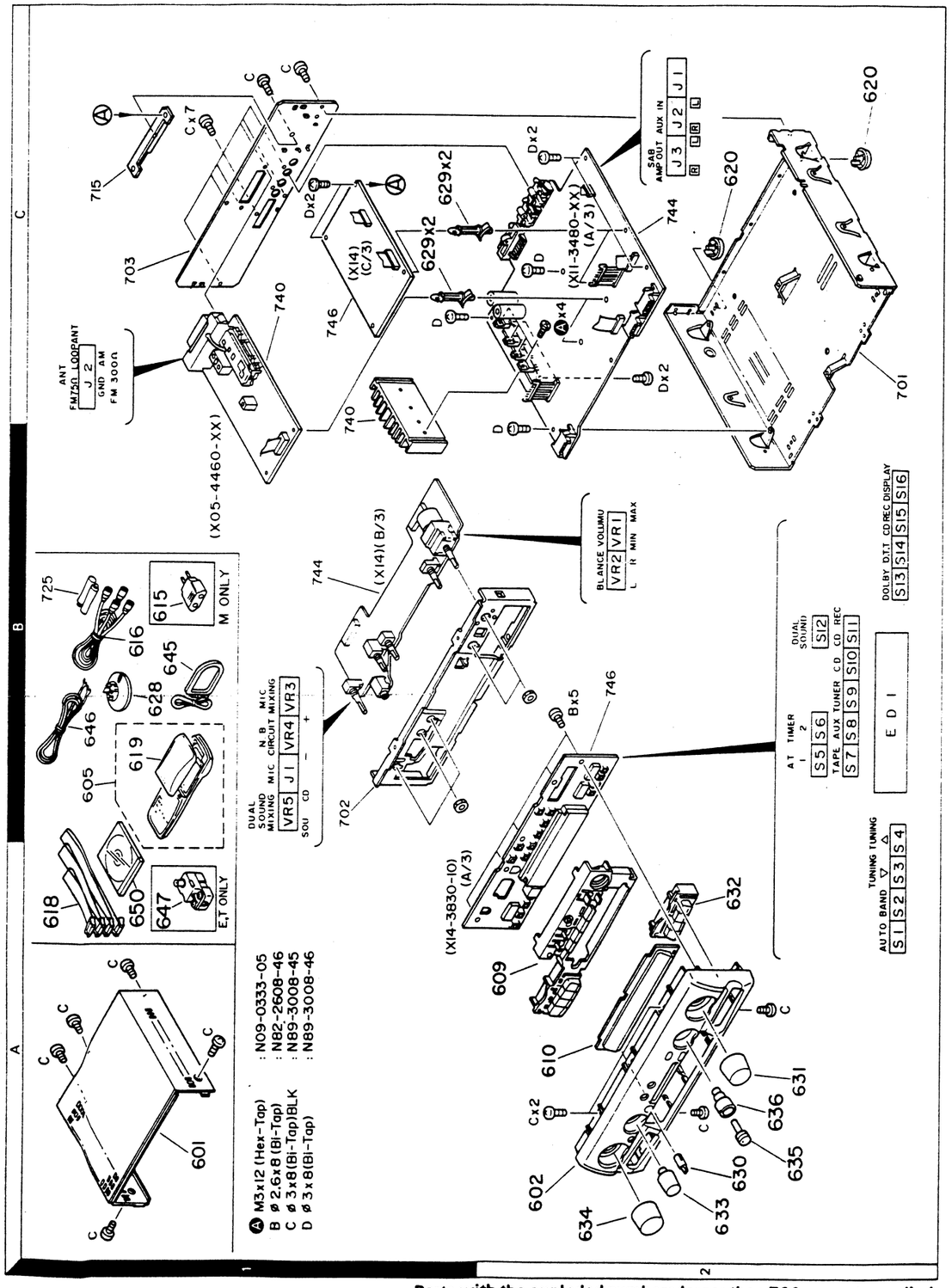
2/2

Y05-2820-10

C-B7/L

KENWOOD

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

C-B7/L

PARTS LIST

UNIT LIST

Destination		TUNER UNIT	CONTROL UNIT	DISPLAY UNIT
SINGAPORE MADE	K	X05-4460-11	X11-3480-10	X14-3830-10
	P	X05-4460-11	X11-3480-10	X14-3830-10
	M	X05-4460-21	X11-3480-21	X14-3830-21
	X	X05-4460-71	X11-3480-10	X14-3830-71
	T	X05-4462-70	X11-3480-10	X14-3832-71
	E	X05-4462-70	X11-3480-10	X14-3832-71
MALAYSIA MADE	K	X05-4460-11	X11-3480-10	X14-3830-10
	P	X05-4460-11	X11-3480-10	X14-3830-10

C-B7/L

NO.1

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remark 備考
			C-B7/L			
601	1A	*	A01-2963-01	METALLIC CABINET		
602	2A	*	A60-0445-21	PANEL	KP	
602	2A	*	A60-0549-21	PANEL	MK	
605	1B	*	X94-1050-31	REMOTE CONTROL ASSY UNIT	TE	
609	2A	*	B01-0511-02	PANEL ESCUTCHEON	X	
610	2A	*	B10-1996-03	FRONT GLASS	P	
611	2A	*	B12-0235-04	INDICATOR		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0307-13	WARRANTY CARD	K	
-			B46-0310-03	WARRANTY CARD	E	
-		*	B60-1259-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1260-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1261-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1262-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1263-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1264-00	INSTRUCTION MANUAL (SPANISH)	ME	
-		*	B60-1266-00	INSTRUCTION MANUAL (CHINESE)	M	
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
616	1B		E30-0615-05	AUDIO CORD WITH CONNECTOR		
618	1A	*	E30-2738-05			
619	1B		F07-0721-23	COVER		
		*	H50-0708-04	ITEM CARTON CASE	KPX	
		*	H50-0709-04	ITEM CARTON CASE	TE	
		*	H50-0757-04	ITEM CARTON CASE	M	
-		*	H50-0760-04	ITEM CARTON CASE	W	
		*	H10-5566-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5567-02	POLYSTYRENE FOAMED FIXTURE R	W	
-		*	H10-5579-02	POLYSTYRENE FOAMED FIXTURE L	W	
-		*	H10-5580-02	POLYSTYRENE FOAMED FIXTURE R	W	
-		*	H13-0086-04	CARTON BOARD		
-		*	H25-0632-24	PROTECTION BAG	KPMXE	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-			H25-0681-04	PROTECTION BAG		
620	2C		J02-0370-05	FOOT		
628	1B		J19-2815-04	ANTENNA HOLDER		
629	1C		J19-3330-15	UNIT HOLDER		
630	2A	*	K29-3741-04	KNOB MIC MIXING	MX	
631	2A	*	K29-5764-03	KNOB VOLUME		
632	2A	*	K29-5765-03	KNOB D.I.T.CD REC.DISPLY		
633	2A	*	K29-5787-04	KNOB N.B CIRCUIT		
634	2A	*	K29-5805-14	KNOB DUAL SOUND		
635	2A	*	K29-5766-04	KNOB BALANCE		
636	2A	*	K29-5768-04	KNOB INPUT BALANCE		
B	2B		N82-2608-46	BINDIG HEAD TAPTITE SCREW		
C	1A, 2A		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1C, 2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
645	1B		T90-0174-05	LOOP ANTENNA		
646	1B		T90-0175-05	T TYPE ANTENNA		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) E:England E:Europe
T:ｱｼｱ,ｵｰｽﾄﾗﾘｱ M:Australia M:Other Areas

W : Malaysia made

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied
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NO.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向	Remarks 備考
647	1A		T90-0185-05	ANTENNA ADAPTOR			TE	
650	1A	*	W01-0830-05	CD DISK				
TUNER UNIT(X05-446X-XX)								
C1 ,2			CK73FB1H103K	CHIP C	0.010UF	K	KPMX	
C4			CE04LW1A470M	ELECTRO	47UF	10WV	KPMX	
C5			CK73FB1H103K	CHIP C	0.010UF	K	KPMX	
C8			CK73FB1H103K	CHIP C	0.010UF	K	KPMX	
C10			CK73FB1H122K	CHIP C	1200PF	K	KPMX	
C11			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	KPMX	
C13			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPMX	
C14			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	KPMX	
C21 ,22			CF92FV1H163J	MF	0.016UF	J	MX	
C21 ,22			CF92FV1H243J	MF	0.024UF	J	KP	
C23			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPMX	
C24			CE04LW1H3R3M	ELECTRO	3.3UF	50WV	KPMX	
C25			CE04LW1V100M	ELECTRO	10UF	35WV	KPMX	
C27			CK73FB1E473K	CHIP C	0.047UF	K	KPMX	
C28			CE04LW1V100M	ELECTRO	10UF	35WV	KPMX	
C31			CE04LW1A470M	ELECTRO	47UF	10WV	KPMX	
C32			CK73FB1H103K	CHIP C	0.010UF	K	KPMX	
C33			CC73FCH1H270J	CHIP C	27PF	J	KPMX	
C34			CC73FCH1H220J	CHIP C	22PF	J	KPMX	
C35 -38			CK73FB1H471K	CHIP C	470PF	K	KPMX	
C39			CE04LW1C470M	ELECTRO	47UF	16WV	KPMX	
C40			CK73FB1H223K	CHIP C	0.022UF	K	KPMX	
C41			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPMX	
C42 ,43			CK73FB1H103K	CHIP C	0.010UF	K	KPMX	
C50			C91-0769-05	CERAMIC	0.01UF	K	KPMX	
C51			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPMX	
C52			CE04LW1C470M	ELECTRO	47UF	16WV	KPMX	
C57			CC73FSL1H220J	CHIP C	22PF	J	KPMX	
C65			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPMX	
C66			CK73FB1H102K	CHIP C	1000PF	K	KPMX	
C71			CE04LW1V100M	ELECTRO	10UF	35WV	KPMX	
C72			CE04LW1C470M	ELECTRO	47UF	16WV	KPMX	
C107			CK73FB1E473K	CHIP C	0.047UF	K	KPMX	
C112			CC73FSL1H101J	CHIP C	100PF	J	KPMX	
C114			CK73FB1H681K	CHIP C	680PF	K	KPMX	
C115,116			CC73FSL1H101J	CHIP C	100PF	J	KPMX	
C121,122			CE04LW1C470M	ELECTRO	47UF	16WV	KPMX	
C135,136			CF92FV1H682J	MF	6800PF	J	M	
C182			CC73FSL1H150J	CHIP C	15PF	J	KPMX	
J1			E20-0476-05	LOCK TERMINAL BOARD ANTENNA			KPMX	
CF1 ,2			L72-0531-05	CERAMIC FILTER			KPMX	
CF3			L72-0574-05	CERAMIC FILTER			KPMX	
L7			L30-0467-05	AM IFT			KPMX	
L10			L40-1091-17	SMALL FIXED INDUCTOR(1UH)			KPMX	
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)			KPMX	
L12			L40-1091-17	SMALL FIXED INDUCTOR(1UH)			KPMX	
L103			L39-1309-05	COMBINATION COIL			KPMX	
L106			L40-1091-17	SMALL FIXED INDUCTOR(1UH)			KPMX	
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)			KPMX	
X2			L78-0295-05	RESONATOR (19KHZ)			KPMX	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

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NO.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向	Remarks 備考
R11			RS14KB3A820J	FL-PROOF RS	82	J 1W	KPMX	
R31			RS14KB3D221J	FL-PROOF RS	220	J 2W	KPMX	
R42			RD14NB2E101J	RD	100	J 1/4W	KPMX	
R111			RD14NB2E470J	RD	47	J 1/4W	KPMX	
R127,128			RD14NB2E101J	RD	100	J 1/4W	KPMX	
W46			R92-0670-05	CHIP R	0 OHM		KPMX	
W48			R92-0670-05	CHIP R	0 OHM		KPMX	
S101		*	S62-0034-05	SLIDE SWITCH DE EMPHASIS			M	
D3			HZS5.1N(B2)	ZENER DIODE			KPMX	
D3			RD5.1ES(B2)	ZENER DIODE			KPMX	
D4			HZS3.3N(B2)	ZENER DIODE			KPMX	
D4			RD3.3ES(B2)	ZENER DIODE			KPMX	
D7			MA110	DIODE			KPMX	
D8 ,9			HSS104	DIODE			KPMX	
D8 ,9			1SS133	DIODE			KPMX	
D11			HZS8.2N(B2)	ZENER DIODE			KPMX	
D11			RD8.2ES(B2)	ZENER DIODE			KPMX	
D111,112			MA110	DIODE			KPMX	
IC1			LA1831	IC(AM/FM TUNER)			KPMX	
IC2			LC7218	IC(PLL SYNTHESIZER)			KPMX	
IC12			NJM4565D	IC(OP AMP X2)			KPMX	
Q1			2SC2714(R,O)	TRANSISTOR			KPMX	
Q2			2SC1845(F,E)	TRANSISTOR			KPMX	
Q3			2SC1740S(Q,R)	TRANSISTOR			KPMX	
Q3			2SC2785(F,E)	TRANSISTOR			KPMX	
Q7			2SC2412K	TRANSISTOR			KPMX	
Q11			2SD863(E,F)	TRANSISTOR			KPMX	
Q102			2SA1037K	TRANSISTOR			KPMX	
Q104			2SA1037K	TRANSISTOR			KPMX	
Q107-110			2SC2412K	TRANSISTOR			M	
Q109,110			2SC2412K	TRANSISTOR			KPX	
Q111			2SA1037K	TRANSISTOR			KPMX	
DT1			W02-1167-05	FM FRONT-END ASSY			KPMX	
TUNER UNIT(X05-447X-XX)								
C1 ,2			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C4			CE04LW1C470M	ELECTRO	47UF	16WV	TE	
C5			CK73FB1H223K	CHIP C	0.022UF	K	TE	
C6			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C7			CE04LW1H3R3M	ELECTRO	3.3UF	50WV	TE	
C8			CK73FB1H682K	CHIP C	6800PF	K	TE	
C9			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C10			CC73FSL1H330J	CHIP C	33PF	J	TE	
C11			CE04LW1V100M	ELECTRO	10UF	35WV	TE	
C12			CE04LW1H010M	ELECTRO	1.0UF	50WV	TE	
C13			CE04LW1HR33M	ELECTRO	0.33UF	50WV	TE	
C14			CE04LW1H010M	ELECTRO	1.0UF	50WV	TE	
C15			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C16			C91-0769-05	CERAMIC	0.01UF	K	TE	
C17			CK73FB1H223K	CHIP C	0.022UF	K	TE	
C21 ,22			CK73FB1H682K	CHIP C	6800PF	K	TE	
C23			CE04LW1V100M	ELECTRO	10UF	35WV	TE	
C25			CE04LW1V100M	ELECTRO	10UF	35WV	TE	
C27			CE04LW1V100M	ELECTRO	10UF	35WV	TE	

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NO.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向	Remarks 備考
C28			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C31			CE04LW1A470M	ELECTR⊙	47UF	10WV	TE	
C32			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C33			CC73FCH1H270J	CHIP C	27PF	J	TE	
C34			CC73FCH1H220J	CHIP C	22PF	J	TE	
C35 -38			CK73FB1H471K	CHIP C	470PF	K	TE	
C39			CE04LW1C470M	ELECTR⊙	47UF	16WV	TE	
C40			CQ92FM1H223J	MYLAR	0.022UF	J	TE	
C41			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV	TE	
C42 ,43			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C45 ,46			CE04LW1V100M	ELECTR⊙	10UF	35WV	TE	
C47 ,48			CE04LW1H0R1M	ELECTR⊙	0.1UF	50WV	TE	
C50			C91-0769-05	CERAMIC	0.01UF	K	TE	
C51			CE04LW1H010M	ELECTR⊙	1.0UF	50WV	TE	
C52			CE04LW1C470M	ELECTR⊙	47UF	16WV	TE	
C57			CC73FCH1H220J	CHIP C	22PF	J	TE	
C58 ,59			CK73FB1H472K	CHIP C	4700PF	K	TE	
C65			CE04LW1H010M	ELECTR⊙	1.0UF	50WV	TE	
C66			C91-0769-05	CERAMIC	0.01UF	K	TE	
C72			CE04LW1C470M	ELECTR⊙	47UF	16WV	TE	
C107			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C121,122			CE04LW1C470M	ELECTR⊙	47UF	16WV	TE	
C182			CC73FSL1H150J	CHIP C	15PF	J	TE	
J1			E20-0321-05	L⊙CK TERMINAL B⊙ARD ANTENNA			TE	
CF1 ,2			L72-0536-05	CERAMIC FILTER			TE	
L1 ,2			L40-1091-17	SMALL FIXED INDUCT⊙R(1UH)			TE	
L3			L30-0496-05	FM IFT			TE	
L4			L30-0497-05	FM IFT			TE	
L5			L79-0125-05	LC FILTER			TE	
L7			L30-0467-05	AM IFT			TE	
L8 ,9			L79-0790-05	LC FILTER			TE	
L10			L40-1091-17	SMALL FIXED INDUCT⊙R(1UH)			TE	
L103			L39-1310-05	C⊙MBINATI⊙N C⊙IL			TE	
L106			L40-1091-17	SMALL FIXED INDUCT⊙R(1UH)			TE	
X1			L77-1122-05	CRYSTAL RES⊙NAT⊙R(7.2MHZ)			TE	
X2			L78-0295-05	RES⊙NAT⊙R	(19KHZ)		TE	
R31			RS14KB3D221J	FL-PR⊙⊙F RS	220	J 2W	TE	
R42			RD14NB2E101J	RD	100	J 1/4W	TE	
R111			RD14NB2E470J	RD	47	J 1/4W	TE	
R127,128			RD14NB2E101J	RD	100	J 1/4W	TE	
VR1			R12-3686-05	TRIMMING P⊙T.(22K)			TE	
VR2			R12-3685-05	TRIMMING P⊙T.(10K)			TE	
VR3			R12-1619-05	TRIMMING P⊙T.(4.7K)			TE	
W101-103			R92-0670-05	CHIP R	0 ⊙HM		TE	
W200-207			R92-0679-05	CHIP R	0 ⊙HM		TE	
W211			R92-0679-05	CHIP R	0 ⊙HM		TE	
D3			HZS5.1N(B2)	ZENER DI⊙DE			TE	
D3			RD5.1ES(B2)	ZENER DI⊙DE			TE	
D4			HZS3.3N(B2)	ZENER DI⊙DE			TE	
D4			RD3.3ES(B2)	ZENER DI⊙DE			TE	
D5			HSS104	DI⊙DE			TE	
D5			1SS133	DI⊙DE			TE	
D11			HZS8.2N(B2)	ZENER DI⊙DE			TE	

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NO.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向	Remarks 備考
D11			RD8.2ES(B2)	ZENER DI⊙DE			TE	
D111,112			HSS104	DI⊙DE			TE	
D111,112			1SS133	DI⊙DE			TE	
IC1			LA1851N	IC(AM,FM TUNER)			TE	
IC2			LC7218	IC(PLL SYNTHESIZER)			TE	
IC3			NJM4565D	IC(⊙P AMP X2)			TE	
Q1			2SC2714(R,⊙)	TRANSISTⓄR			TE	
Q2			2SC1845(F,E)	TRANSISTⓄR			TE	
Q3 ,4			2SC2412K	TRANSISTⓄR			TE	
Q5			2SA1037K	TRANSISTⓄR			TE	
Q7			2SC2412K	TRANSISTⓄR			TE	
Q11			2SD863(E,F)	TRANSISTⓄR			TE	
Q102,103			2SA1037K	TRANSISTⓄR			TE	
Q109,110			2SC2412K	TRANSISTⓄR			TE	
Q111			2SA1037K	TRANSISTⓄR			TE	
Q113,114			2SC2412K	TRANSISTⓄR			TE	
Q116			2SC2412K	TRANSISTⓄR			TE	
DT1			W02-1166-05	FM FR⊙NT-END ASSY			TE	
CONTROL UNIT(X11-348X-XX)								
C1 ,2			CK45FB1H471K	CERAMIC	470PF	K		
C3 ,4			CC45FSL1H101J	CERAMIC	100PF	J		
C5 ,6			CC45FSL1H221J	CERAMIC	220PF	J		
C7 ,8			CF92FV1H103J	MF	0.010UF	J		
C9 ,10			CC45FSL1H221J	CERAMIC	220PF	J		
C11 -14			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C15 ,16			CC45FSL1H220J	CERAMIC	22PF	J		
C17 ,18			CF92FV1H822J	MF	8200PF	J		
C19 ,20			CF92FV1H683J	MF	0.068UF	J		
C21 ,22			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C23 ,24			CF92FV1H822J	MF	8200PF	J		
C25 -34			CE04LW1V100M	ELECTR⊙	10UF	35WV	M	
C27 -34			CE04LW1V100M	ELECTR⊙	10UF	35WV	KPXTE	
C35 ,36			CE04LW1V4R7M	ELECTR⊙	4.7UF	35WV		
C37 ,38			CC45FSL1H221J	CERAMIC	220PF	J		
C39 -42			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C43 ,44			CC45FSL1H220J	CERAMIC	22PF	J		
C45 ,46			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C47 ,48			CC45FSL1H220J	CERAMIC	22PF	J		
C49 ,50			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C51 ,52			CC45FSL1H470J	CERAMIC	47PF	J		
C53 -58			CC45FSL1H220J	CERAMIC	22PF	J		
C59 ,60			CE04LW1V100M	ELECTR⊙	10UF	35WV		
C100,101			CF92FV1H104J	MF	0.10UF	J		
C102,103		*	C90-3309-05	ALMINIUM ELECTR⊙LYTIC		C.		
C104-107			CF92FV1H104J	MF	0.10UF	J		
C108,109		*	C90-3375-05	ALMINIUM ELECTR⊙LYTIC		C.		
C110,111			CF92FV1H104J	MF	0.10UF	J		
C112-115			CE04LW1E221M	ELECTR⊙	220UF	25WV		
C116			CE04LW1H100M	ELECTR⊙	10UF	50WV		
C117			CE04LW1H101M	ELECTR⊙	100UF	50WV		
C118			CF92FV1H104J	MF	0.10UF	J		
C119			CE04LW1C102M	ELECTR⊙	1000UF	16WV		
C120,121			CF92FV1H104J	MF	0.10UF	J		
C122		*	C90-3363-05	ALMINIUM ELECTR⊙LYTIC		C.		

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NO.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C123,124			C90-1839-05	NP-ELEC 120UF 42WV		
C125			CE04LW1V4R7M	ELECTR@ 4.7UF 35WV		
C126			CE04LW1C470M	ELECTR@ 47UF 16WV	M	
C127,128			CE04LW1H010M	ELECTR@ 1.0UF 50WV	M	
C129			CF92FV1H104J	MF 0.10UF J	M	
C130-133			CE04LW1C101M	ELECTR@ 100UF 16WV		
C135-137			CE04LW1C470M	ELECTR@ 47UF 16WV		
C138,139			CE04LW1A101M	ELECTR@ 100UF 10WV		
C140			CE04LW1C470M	ELECTR@ 47UF 16WV		
C141			CE04LW1A101M	ELECTR@ 100UF 10WV		
C142			CE04HW1H4R7M	NP-ELEC 4.7UF 50WV		
C143			CE04LW1E101M	ELECTR@ 100UF 25WV		
C144,145			CE04LW1V4R7M	ELECTR@ 4.7UF 35WV		
C146,147			CE04LW1V100M	ELECTR@ 10UF 35WV		
C148			CK45FF1H103Z	CERAMIC 0.010UF Z		
C149-154			CC45FSL1H221J	CERAMIC 220PF J		
C155,156			CC45FSL1H101J	CERAMIC 100PF J		
C157-159			C91-0769-05	CERAMIC 0.01UF K		
C161			C91-0769-05	CERAMIC 0.01UF K		
C162,163			CC45FSL1H221J	CERAMIC 220PF J		
C164			CK45FF1H103Z	CERAMIC 0.010UF Z		
C165			CE04LW1V100M	ELECTR@ 10UF 35WV	M	
C166			C91-0769-05	CERAMIC 0.01UF K		
C167			CK45FF1H103Z	CERAMIC 0.010UF Z		
C168			CE04LW1V4R7M	ELECTR@ 4.7UF 35WV		
C169		*	C90-3374-05	ALMINIUM ELECTR@LYTIC C.		
C170			CE04BW1V221M	ELECTR@ 220UF 35WV		
C171			CC45FSL1H150J	CERAMIC 15PF J		
C172,173			CK45FF1H223Z	CERAMIC 0.022UF Z		
J1			E58-0006-05	RECTANGULAR RECEPTACLE @UTSIDE		
J2 ,3		*	E63-0095-05	PH@N@ JACK AUX INPUT,@MNI		
A	2C		N09-0333-05	TAPPING SCREW (3X12)		
C	2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
CP1			R90-0832-05	MULTI-C@MP 4.7KX3 J 1/6W		
R200,201			RS14KB3D391J	FL-PR@@F RS 390 J 2W		
R202,203			RS14KB3D681J	FL-PR@@F RS 680 J 2W		
R204			RS14KB3D220J	FL-PR@@F RS 22 J 2W		
R205			RS14KB3D821J	FL-PR@@F RS 820 J 2W		
R208-210			RS14KB3D220J	FL-PR@@F RS 22 J 2W		
R213-216			RD14NB2E471J	RD 470 J 1/4W		
R218-221			RD14NB2E4R7J	RD 4.7 J 1/4W		
R222-224			RD14NB2E101J	RD 100 J 1/4W	M	
R223,224			RD14NB2E101J	RD 100 J 1/4W	KPXTE	
R225			RD14NB2E4R7J	RD 4.7 J 1/4W		
R226			RD14NB2E102J	RD 1.0K J 1/4W		
R227			RD14NB2E152J	RD 1.5K J 1/4W		
R228			RD14NB2E4R7J	RD 4.7 J 1/4W		
R229			RD14NB2E102J	RD 1.0K J 1/4W		
R277			RS14KB3D821J	FL-PR@@F RS 820 J 2W		
D1			DSA3A2	DI@DE		
D3			1SR139-100	DI@DE		
D10			HZS13N(B2)	ZENER DI@DE		

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NO.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D10			RD13ES(B2)	ZENER DI@DE		
D11			HZS15N(B)	ZENER DI@DE		
D11			RD15ES(B)	ZENER DI@DE		
D12			S5688B	DI@DE		
D12			1SR139-100	DI@DE		
D14			HSS104	DI@DE		
D14			1SS133	DI@DE		
D15			HZS8.2N(B2)	ZENER DI@DE		
D15			RD8.2ES(B2)	ZENER DI@DE		
D16 -38			HSS104	DI@DE		
D16 -38			1SS133	DI@DE		
D39			HZS11N(B2)	ZENER DI@DE	M	
D39			RD11ES(B2)	ZENER DI@DE	M	
D40 ,41			HZS6.8N(B2)	ZENER DI@DE		
D40 ,41			RD6.8ES(B2)	ZENER DI@DE		
D42			HZS5.1N(B2)	ZENER DI@DE		
D42			RD5.1ES(B2)	ZENER DI@DE		
D43 ,44			MA177	DI@DE		
IC1			NJU7313L	IC(ANAL@G SWITCH) SELECT@R SW)		
IC2			NJU7311L	IC(ANALOG SWITCH)ARRAY)		
IC3			CXA1642P	IC(KARA@KE V@CAL CANCEL)	M	
IC4			LC4966	IC(CM@S L@GIC BILATERAL SW)		
IC5			STK301-220	IC(GRAPHIC)		
IC6			TA7812S	IC(V@LTAGE REGULAT@R/ +12V)		
IC6			UPC7812AHF	IC(V@LTAGE REGULAT@R/ +12V)		
IC7			TA79012S	IC(V@LTAGE REGULAT@R/ -12V)		
IC7			UPC7912HF	IC(V@LTAGE REGULAT@R/ -12V)		
IC8			AN7805T5F	IC(V@LTAGE REGULAT@R/+5.75V)		
IC9 -16			NJM4565L-D	IC(@P AMP X2)		
IC17			TA7812S	IC(V@LTAGE REGULAT@R/ +12V)		
IC17			UPC7812AHF	IC(V@LTAGE REGULAT@R/ +12V)		
Q1			2SA1175(F,E)	TRANSISTOR		
Q1			2SA933S(Q,R)	TRANSISTOR		
Q2			2SA1534A(R,S)	TRANSISTOR		
Q3			2SC1740S(Q,R)	TRANSISTOR		
Q3			2SC2785(F,E)	TRANSISTOR		
Q4 ,5			2SC2878(B)	TRANSISTOR		
Q6			2SC1740S(Q,R)	TRANSISTOR		
Q6			2SC2785(F,E)	TRANSISTOR		
Q7			DTA124ES	DIGITAL TRANSISTOR		
Q7			UN4112	DIGITAL TRANSISTOR		
Q8			2SC1740S(Q,R)	TRANSISTOR		
Q8			2SC2785(F,E)	TRANSISTOR		
Q9			DTA124ES	DIGITAL TRANSISTOR		
Q9			UN4112	DIGITAL TRANSISTOR		
Q10			DTC124ES	DIGITAL TRANSISTOR		
Q10			UN4212	DIGITAL TRANSISTOR		

DISPLAY UNIT(X14-383X-XX)

D9			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1			CE04LW1V4R7M	ELECTR@ 4.7UF 35WV		
C2			CF92FV1H103J	MF 0.010UF J		
C3			CK45FB1H821K	CERAMIC 820PF K		
C4			CF92FV1H123J	MF 0.012UF J		
C5			CF92FV1H103J	MF 0.010UF J		

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NO.8

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
C6			CK45FB1H821K	CERAMIC 820PF K		
C7			CF92FV1H123J	MF 0.012UF J		
C8			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C9			CE04LW1A101M	ELECTRO 100UF 10WV		
C10			CF92FV1H104J	MF 0.10UF J		
C11			CE04LW1A101M	ELECTRO 100UF 10WV		
C12			CF92FV1H104J	MF 0.10UF J		
C13			CE04LW1A101M	ELECTRO 100UF 10WV		
C14			CF92FV1H104J	MF 0.10UF J		
C15			CK45FF1H103Z	CERAMIC 0.010UF Z		
C16			CF92FV1H104J	MF 0.10UF J		
C17			CE04LW1A101M	ELECTRO 100UF 10WV		
C18			CF92FV1H392J	MF 3900PF J		
C19			CE04LW1A101M	ELECTRO 100UF 10WV		
C20 ,21			CC45FSL1H101J	CERAMIC 100PF J		
C22 ,23			CF92FV1H123J	MF 0.012UF J		
C24 ,25			CF92FV1H133J	MF 0.013UF J		
C26 ,27			CK45FB1H821K	CERAMIC 820PF K		
C28 ,29			CF92FV1H473J	MF 0.047UF J		
C30 ,31			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C32			CE04LW1H100M	ELECTRO 10UF 50WV		
C33			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C34			CE04LW1A101M	ELECTRO 100UF 10WV		
C35			CF92FV1H472J	MF 4700PF J		
C36			CE04LW1C220M	ELECTRO 22UF 16WV		
C37			CF92FV1H273J	MF 0.027UF J		
C38			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C39			CF92FV1H333J	MF 0.033UF J		
C40			CF92FV1H334J	MF 0.33UF J		
C41			CF92FV1H104J	MF 0.10UF J		
C42			CE04LW1C470M	ELECTRO 47UF 16WV		
C43 ,44			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C45 ,46			CC45FSL1H101J	CERAMIC 100PF J		
C47 ,48			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C49			C90-3242-05	ELECTRO 4.7UF 35WV		
C50 -52			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C54 ,55			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C56 ,57			CE04LW1V100M	ELECTRO 10UF 35WV		
C58			CF92FV1H822J	MF 8200PF J		
C82			C90-3253-05	ELECTRO 1UF 50WV		
C83 ,84		*	C90-3505-05	ALMINIUM ELECTROLYTIC C.		
C85			C90-3212-05	ELECTRO 47UF 6.3WV		
C87			C90-3214-05	ELECTRO 100UF 6.3WV		
C88			C91-0769-05	CERAMIC 0.01UF K		
C89			C90-1827-05	BACKUP 0.047F 5.5WV		
C90 ,91			C91-1239-05	CERAMIC 15PF J		
C92 ,93			C91-1241-05	CERAMIC 20PF J		
C100,101			CF92FV1H473J	MF 0.047UF J		
C104,105			CF92FV1H561J	MF 560PF J		
C106,107			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C108,109			CF92FV1H564J	MF 0.56UF J		
C110,111			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C112,113			CF92FV1H104J	MF 0.10UF J		
C114,115			CE04LW1V100M	ELECTRO 10UF 35WV		
C120-125			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

NO.9

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
C128,129			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C130-135			CE04LW1C470M	ELECTRO 47UF 16WV	M	
C132-135			CE04LW1C470M	ELECTRO 47UF 16WV	KPXTE	
C136,137			CE04LW1V100M	ELECTRO 10UF 35WV		
C138			CF92FV1H104J	MF 0.10UF J		
C140			CK45FF1H103Z	CERAMIC 0.010UF Z	M	
C141			C91-0749-05	CERAMIC 220PF K	M	
C142			C90-3253-05	ELECTRO 1UF 50WV	M	
C143			CC45FSL1H220J	CERAMIC 22PF J	M	
C144			CK45FB1H102K	CERAMIC 1000PF K	M	
C145			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	M	
C146,147			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	
C148			C91-0769-05	CERAMIC 0.01UF K		
J1			E11-0220-05	MINIATURE PHONE JACK MIC	M	
L1 ,2			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X1			L78-0601-05	RESONATOR (7.16MHZ)		
X2		*	L77-1175-05	CRYSTAL RESONATOR(4.194304MHZ)		
CP1			R90-0850-05	MULTI-COMP 100KX3 J 1/6W		
CP2			R90-0855-05	MULTI-COMP 100KX5 J		
CP3			R90-0482-05	MULTI-COMP 100KX4 J 1/6W		
CP4			R90-0803-05	MULTI-COMP 100KX7 J 1/4W		
R9			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R34			RD14NB2E470J	RD 47 J 1/4W		
R62 ,63			RD14NB2E100J	RD 10 J 1/4W		
R138-141			RD14NB2E4R7J	RD 4.7 J 1/4W		
R144			RD14NB2E4R7J	RD 4.7 J 1/4W		
VR1			R29-5057-05	POTENTIOMETER VOLUME		
VR2		*	R24-5005-05	POTENTIOMETER(200K,200K*2) BAL		
VR3		*	R10-5068-05	POTENTIOMETER MIC MIXING	M	
VR4		*	R11-9024-05	POTENTIOMETER N.B CIRCUIT		
VR5		*	R10-5070-05	POTENTIOMETER(200K*2 CT) L.A.C		
S1 -16			S40-1064-05	PUSH SWITCH KEY BOARD		
D1 -8			HSS104	DIODE		
D1 -8			1SS133	DIODE		
D10 -13			HSS104	DIODE	KPXTE	
D10 -13			1SS133	DIODE	KPXTE	
D10 -14			HSS104	DIODE	M	
D10 -14			1SS133	DIODE	M	
D15 -17			HSS104	DIODE	TE	
D15 -17			1SS133	DIODE	TE	
D15 ,16			HSS104	DIODE	X	
D15 ,16			1SS133	DIODE	X	
D16			HSS104	DIODE	KPM	
D16			1SS133	DIODE	KPM	
D18 ,19			HSS104	DIODE	M	
D18 ,19			1SS133	DIODE	M	
D20			HZS3.9N(B2)	ZENER DIODE		
D20			RD3.9ES(B2)	ZENER DIODE		
D21			HZS3.3N(B2)	ZENER DIODE		
D21			RD3.3ES(B2)	ZENER DIODE		
ED1		*	FIP9DM6R	INDICATOR TUBE		
IC1			UPC78L05J	IC(VOLTAGE REGULATOR/ +5V)		

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Teile ohne Parts No. werden nicht geliefert.

NO.10

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
IC2			M5238AL	IC(OPAMP X2)		
IC3			YM7128B	IC(DIGITAL SURROUND)		
IC4 ,5			NJM4565L-D	IC(OP AMP X2)		
IC6			LA2730	IC(DOLBY SYSTEM)		
IC7			NJM4565L-D	IC(OP AMP X2)		
IC8			TC9213P	IC(2CH ELECTRONIC VOLUME)		
IC9 ,10			NJM4565L-D	IC(OP AMP X2)		
IC11			LC4966	IC(CMOS LOGIC BILATERAL SW)		
IC12-15			NJM4565L-D	IC(OP AMP X2)		
IC16			TA8409S	IC(MOTOR CONTROL)		
IC17			NJM4565L-D	IC(OP AMP X2)	M	
IC18			MN1381-R(TA)	IC(VOLTAGE DETECT)		
IC18			S-80740AL	IC(VOLTAGE DETECTOR)		
IC19		*	CXP50120-161Q	IC(MICROPROCESSOR)		
Q1 ,2			2SC1845(F,E)	TRANSISTOR		
Q3 -6			2SC2878(B)	TRANSISTOR		
Q7			2SC4038(Q,R)	TRANSISTOR		
Q8			2SA1175(F,E)	TRANSISTOR	M	
Q8			2SA933S(Q,R)	TRANSISTOR	M	
A1			W02-1153-05	ELECTRIC CIRCUIT MODULE		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

C-B7/L

SPECIFICATIONS

(C-B7)

FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Sensitivity (IHF) ..... 13.2 dBf (1.2 μV at 75 Ω)
Signal to noise ratio at 1 kHz
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Selectivity (IHF ± 400 kHz) ..... 50 dB
Stereo separation (IHF at 1 kHz) ..... 40 dB
Frequency response ... 30 Hz ~ 15 kHz + 0.5 dB, – 3 dB

AM Tuner section

Tuning frequency range ..... 530 kHz ~ 1,700 kHz
Usable sensitivity ..... 12 μV / (500 μV / m)
Signal to noise ratio ..... 48 dB

Pre Amplifier section

Input sensitivity / Impedance
AUX ..... 200 mV / 47 kΩ
N.B. circuit ..... + 12dB (max.)
(60 Hz)

[General]

Dimensions ..... W: 270 mm (10-5 / 8")
H: 85 mm (3-3 / 8")
D: 279 mm (11")
Weight (net) ..... 2.0 kg (4.4 lb)

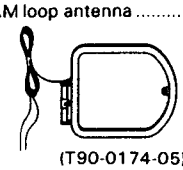
Kenwood follows a policy of continuous advancements in development
For this reason specifications may be changed without notice

Kenwood poursuit une politique de progrès constants en ce qui concerne le developpement
Pour cette raison, les spécifications sont sujettes à modifications sans preavis

Kenwood strebt ständige Verbesserungen in der Entwicklung an
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Accessories

- AM loop antenna 1



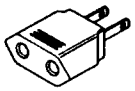
(T90-0174-05)

- Loop antenna stand 1

(J19-2815-04)

- Batteries(R03 / AAA) 2

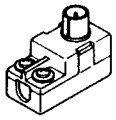
- AC plug adaptor 1
(Except for some areas)
(E03-0115-05)



For the unit with a European AC plug in areas other than Europe.

- FM indoor antenna 1
(T90-0175-05)

- Antenna adaptor
(75Ω / 300Ω) 1
(For U.K. and Europe)
(T90-0185-05)



- Remote control unit 1
(X94-1050-31)
(F07-0721-23):Battery cover

•Cord with connector 1
(E30-2738-05)

CD disk 1
(W01-0830-05)

(C-B7L)

FM Tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Sensitivity (DIN at 75 Ω)
MONO ..... 1.0μV / 11.2 dBf
Signal to noise ratio
(DIN weighted at 1 kHz, 65.2 dBf input)
MONO ..... 65 dB
STEREO ..... 58 dB
Selectivity (DIN ± 300 kHz) ..... 64 dB
Stereo separation (DIN at 1 kHz) ..... 40 dB
Frequency response ... 30 Hz ~ 15 kHz + 0.5 dB, – 3 dB

MW Tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity ..... 12 μV / (500 μV / m)
Signal to noise ratio ..... 46 dB

LW Tuner section

Tuning frequency range ..... 153 kHz ~ 279 kHz
Usable sensitivity ..... 22 μV
Signal to noise ratio ..... 45 dB

Pre Amplifier section

Input sensitivity / Impedance
AUX ..... 200 mV / 47 kΩ
N.B. circuit ..... + 12 dB (max.)
(60 Hz)

[General]

Dimensions ..... W: 270 mm (10-5 / 8")
H: 85 mm (3-3 / 8")
D: 279 mm (11")
Weight (net) ..... 2.0 kg (4.4 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circut modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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